

atggggaaaa cagtcgttgg ggccagtagg atgttctggc taatgttttt cgtgccgctt 60  
 cttcttgccg tctgccccag cgagcccgcg catgccctgg caccgggac gagccgagtt 120  
 gagctgttta agcggcaaag ctcgaaggtg ccatttgaaa agggcgggca agtcaccgag 180  
 cgggttgccc actcgttccg cctccccgcc cttgttaatg tggacggggg gatgggtgcc 240  
 atcgcggacg ctcgctacga aacatccaat gacaactccc tcattgatac ggtggcgaag 300  
 tacagcgtgg acgatgggga gacgtgggag acccaaattg ccatcaagaa cagtcgtgca 360  
 tegtctgttt ctcgtgtggt ggatcccaca gtgattgtga agggcaacaa gctttacgtc 420  
 ctggttggaa gctacaacag ttcgaggagc tactggacgt cgcattggta tgcgagagac 480  
 tgggatattc tgcttgccgt tgggtgaggtc acgaagtcca ctgcccggcg caagataact 540  
 gcgagtatca aatgggggag ccccggtgca ctgaagggaat ttttcccgcc ggaaatggaa 600  
 ggaatgcaca caaatcaatt tcttggcggt gcaggtgttg ccattgtggc gtccaacggg 660  
 aatcttgtgt accctgtgca ggttacgaac aaaaagaagc aagttttttc caagatcttc 720  
 tactcggaag acgagggcaa gacgtggaag tttggggagg gtaggagtga ttttggctgc 780  
 tctgaacctg tggcccttga gtgggagggg aagctcatca taaacactcg agttgactat 840  
 cgccgccgtc tgggtgtacga gtccagtgc acggtggaat cgtgggtgga ggctgtcggc 900  
 acgctctcac gtgtgtgggg cccctcacca aaatcgaacc agcccggcag tcagagcagc 960  
 ttcactgccg tgaccatcga gggaaatgct gttatgctct tcacacaccc gctgaatttt 1020  
 aagggaaagt ggtgcgcgga ccgactgaac ctctggctga cggataacca gcgcatttat 1080  
 aacgttgggc aagtatccat tggatgatga aattccgctt acagctccgt cctgtacaag 1140  
 gatgataagc tgtactgttt gcatgagatc aacagtaacg aggtgtacag ccttgttttt 1200  
 gcgcgcctgg ttggcgagct acggatcatt aaatcagtgc tgcagtcctg gaagaattgg 1260  
 gacagccacc tgccagcat ttgcacccct gctgaccag ccgcttcgtc gtcagagcgt 1320  
 ggttgtggte ccgctgtcac cacggttggg ctgttggct ttttgtcgca cagtgccacc 1380  
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 gttccgaacg gtttgaagtt tgccgggggt tgcggggggg ggccggagggg ggtgagccag 1500  
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 gggcagaccg ttgtgccaga cgggaggagc cctgacatct cccacttcta cgttggcggg 1860  
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 aaccgtcagc tgaatgccga ggagatcagg accttgttct tgagccagga cctgattggc 1980  
 acggaagcac atgtgggcag cagcagcggc agcagtgcc acagtacgcc ctcaactccc 2040  
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 ccctcaactc ccgctgacag cagtgcctac agtacgccct cagctcccgg tgacaacggg 2160  
 gccacagta cgccctcgac tcccggtgac agcagtgcc acagtacgcc ctcaactccc 2220  
 gctgacaacg gtgcccacag tacgccctca gctcccgtg acagcaatgc ccacagtacg 2280  
 ccctcgactc ccgctgacaa cgggtgccac agtacgccct caactcccgc tgacaacggg 2340  
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 ggtgacagca gtgcccacag tacgccctca actcccgtg acaacgggtg ccacagtacg 2460  
 ccctcagctc ccgctgacag caatgccca acgacgccct agcaatgcc acagtacgcc ctcgactccc 2520  
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 gctgacagca gtgcccacag tacgccctca gctcccgtg acaacgggtg ccacagtacg 2640  
 ccctcagctc ccgctgacag cagtgccca agtacgccct cagctcccgg tgacaacggg 2700  
 gccacagta cgccctcagc tcccgtgac aacggtgcc acagtacgcc ctcagctccc 2760  
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 ccctcaactc ccgctgacag cagtgccca agtacgccct cagctcccgg tgacaacggg 2880  
 gccacagta cgccctcagc tcccgtgac agcagtgcc acagtacgcc ctcaattccc 2940  
 ggtgacagca gtgcccacag tacgccctca gctcccgtg acagcagtgc ccacagtacg 3000  
 ccctcagctc ccggtgacaa cgggtgccca agtacgccct cgaactccc tgacaacggg 3060  
 gctaattgta cgggttttgat tttgcaegat ggcgtgcat tttcgccctt ttcgggggga 3120  
 gggctctctt tgtgtgcggg tgetttgctg ctgcacgtgt tcgttatggc agtttttttc 3180  
 tga

FIG. 1

MGKTVVGASRMFWLMFFVPLLLALCPSEPAHALAPGSSRVELFK  
RQSSKVPFEKGGKVTERVVHSFRLPALVNVDGVMVAIADARYETSNDNSLIDTVAKYS  
VDDGETWETQIAIKNSRASSVSRVVDPTVIVKGNKLYVLVGSYNSSRSYWTSHGDARD  
WDILLAVGEVTKSTAGGKITASIKWGS PVS LKEFFPAEMEGMHTNQFLGGAGVAIVAS  
NGNLVYPVQVTNKKKQVF SKI FYSEDEGKTWKFGEGRSDFGCSEPVALEWEGKLI INT  
RVDYRRRLVYESSDMGNSWVFAVGTL SRVWGPSPKSNQPGSQSSFTAVTIEGMRVMLF  
THPLNFKGRWLRDRLNLWLT DNQRI YNVGQVSIGDENSAYSSVLYKDDKLYCLHEINS  
NEVYSLVFARLVGELRI IKS VLQSWKNWDSHLSSICTPADPAASSSERGCGPAVTTVG  
LVGFLSHSATKTEWEDAYRCV NASTANAERVPNGLKFAGVGGGALWPVSQQGQONQRYH  
FANHAFTLVASVTIHEVPSVASPLL GASLDSSGGKLLGLSYDEKHQWQPI YGSTPVT  
PTGSWEMGKRYHVVLTMANKIGSVYIDGEPLEGGQTVVPDGRTPDISHFYVGGYGRS  
DMPTISHVTVNNVLLYNRQLNAEEIRTLFLSQDLIGTEAHMGSSSSGSSAHSTPSTPAD  
NGAHSTPSTPADSSAHSTPSTPADSSAHSTP SAPGDNGAHSTPSTPGDSSAHSTPSTP  
ADNGAHSTP SAPADSNAHSTPSTPADNGAHSTPSTPADNGAHSTPSTPGDNGAHSTPS  
TPGDSSAHSTPSTPADNGAHSTP SAPADSNAHSTPSTPGDNGAHSTP SAPADSNAHST  
ESTPADSSAHSTP SAPGDNGAHSTP SAPADSSAHSTP SAPGDNGAHSTP SAPADNGAH  
STP SAPGDSNAHSTPSTPADSSAHSTPSTPADSSAHSTP SAPGDNGAHSTP SAPADSS  
AHSTPSIPGDSSAHSTP SAPADSSAHSTP SAPGDNGAHSTPSTPADNGANGTVLILHD  
GAAFSAFSGGGLLCAGALLHVFMVAVFF

FIG. 2

095509-031001

atgctggcac	ccggatcgag	ccgagttgag	ctgtttaagc	ggcaaagctc	gaagggtgcca
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gttaatgtgg	acggggtgat	ggttgccatc	gcggacgctc	gctacgaaac	atccaatgac
aactccctca	ttgatacggt	ggcgaagtac	agcgtggacg	atggggagac	gtgggagacc
caaattgcca	tcaagaacag	tcgtgcatcg	tctgtttctc	gtgtggtgga	tcccacagtg
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aagtccactg	cgggcgggcaa	gataactgcg	agtatcaaat	gggggagccc	cgtgtcactg
aaggaatttt	ttccggcgga	aatggaagga	atgcacacaa	atcaatttct	tggcgggtgca
ggtgttgcca	ttgtggcgtc	caacgggaat	cttgtgtaco	ctgtgcaggt	tacgaacaaa
aagaagcaag	ttttttccaa	gatcttctac	tccgaagacg	agggcaagac	gtggaagtgtt
gggaagggtg	ggagcgcttt	tggctgctct	gaacctgtgg	cccttgagtg	ggagggggaag
ctcatcataa	acactcgagt	tgactatcgc	cgccgtctgg	tgtacgagtc	cagtgcacatg
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gttggctttt	tgtcgcacag	tgccaccaaa	accgaatggg	aggatgcgta	ccgctgcgtg
aacgcaagca	cggcaaagtgc	ggagaggggt	ccgaacgggt	tgaagtgttg	ggggggttggc
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gagaggcacc	agtggcagcc	aataacgga	tcaacgccgg	tgacgccgac	cggatcgtgg
gagatgggta	agaggtacca	cgtgggttctt	acgatggcga	ataaaaattgg	ctccgagtac
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gacatctccc	acttctacgt	tggcgggtat	aaaaggagtg	atatgccaac	cataagccac
gtgacgggtg	ataatgttct	tctttacaac	cgtcagctga	atgccgagga	gatcaggacc
ttgttcttga	gccaggacct	gattggcacg	gaagcacaca	tggacagcag	cagcgacacg
agtgcctga					

FIG. 3

MLAPGSSRVELFKRQSSKVPFEKDGKVTERVVHSFRLPALVNVD  
GVMVALADARYETSNDNSLIDTVAKYSVDDGETWETQIAIKNSRASSVSRVVDPTVIV  
KGNKLYVLVGSYNSSRSYWTSHGDARDWDILLAVGEVTKSTAGGKITASIKWGS PVSL  
KEFFPAEMEGMHTNQFLGGAGVAIVASNGNLVYPVQVTNKKKQVFSKIFYSEDEGKTW  
KEGKGRSAFGCSEPVALEWEGKLIINTRVDYRRRLVYESSDMGNSWLEAVGTLSRVWG  
PSPKSNQPGSQSSFTAVTIEGMRVMLETHPLNFKGRWLRDRLNLWLTDNORIYNVGQV  
SIGDENSAYSSVLYKDDKLYCLHEINSNEVYSLVFARLVGELRIIKSVLQSWKNWDSH  
LSSICTPADPAASSSERGCGPAVTTVGLVGFLSHSATKTEWEDAYRCVNASTANAERV  
PNGLKFAGVGGGALWPVSQQGQNORYRFANHAFTVVASVTIHEVPSVASPLL GASLDS  
SEGKLLGLSYDERHQWQPIYGSTPVTPTGSWEMGKRYHVVLTMANKIGSEYIDGEPL  
EGSGQTVVPDERTPDISHFYVGGYKRSDMPTISHVTVNNVLLYNROLNAEEIRTLFLS  
QDLIGTEAHMDSSSDTSA

FIG. 4

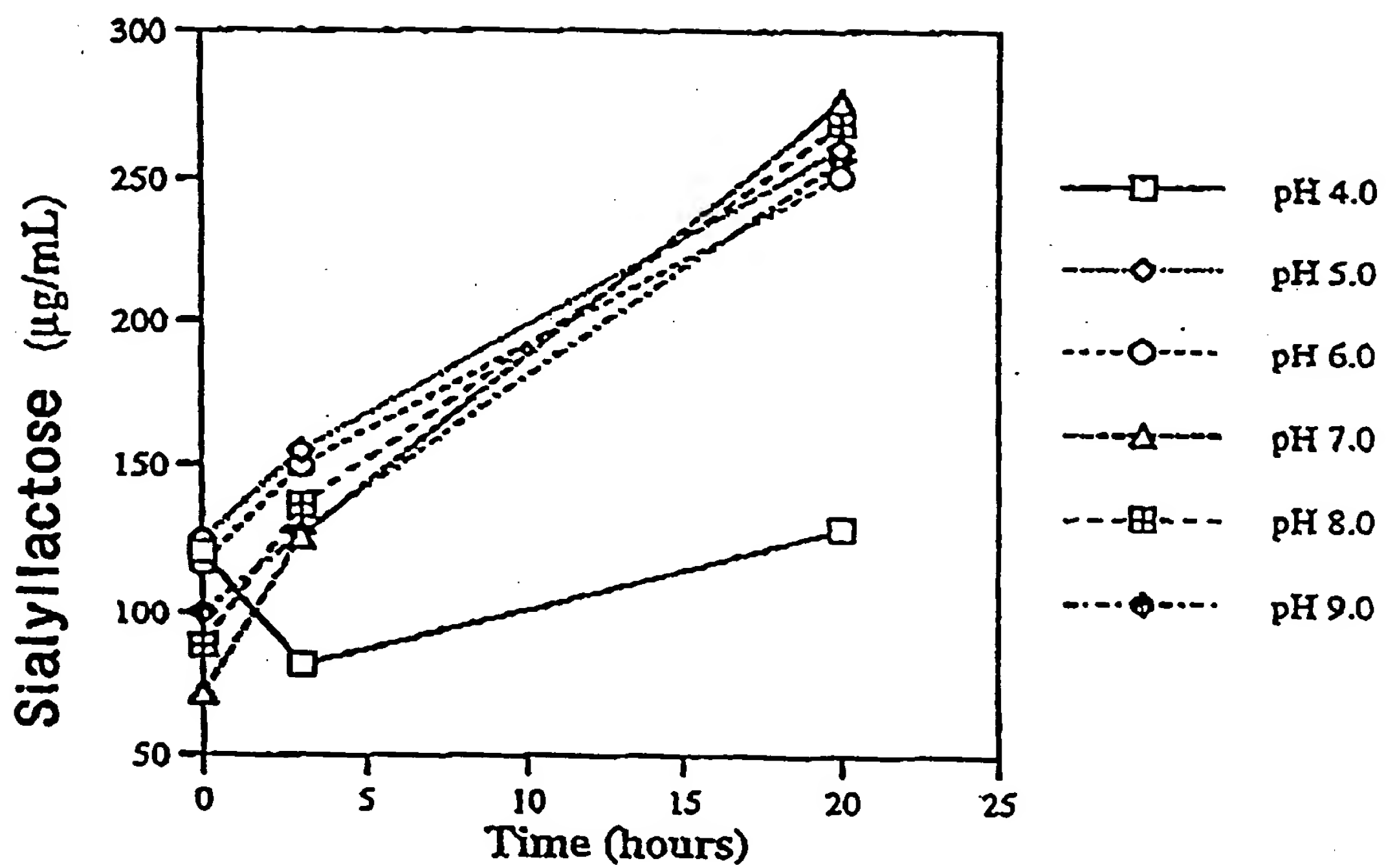


FIG. 5

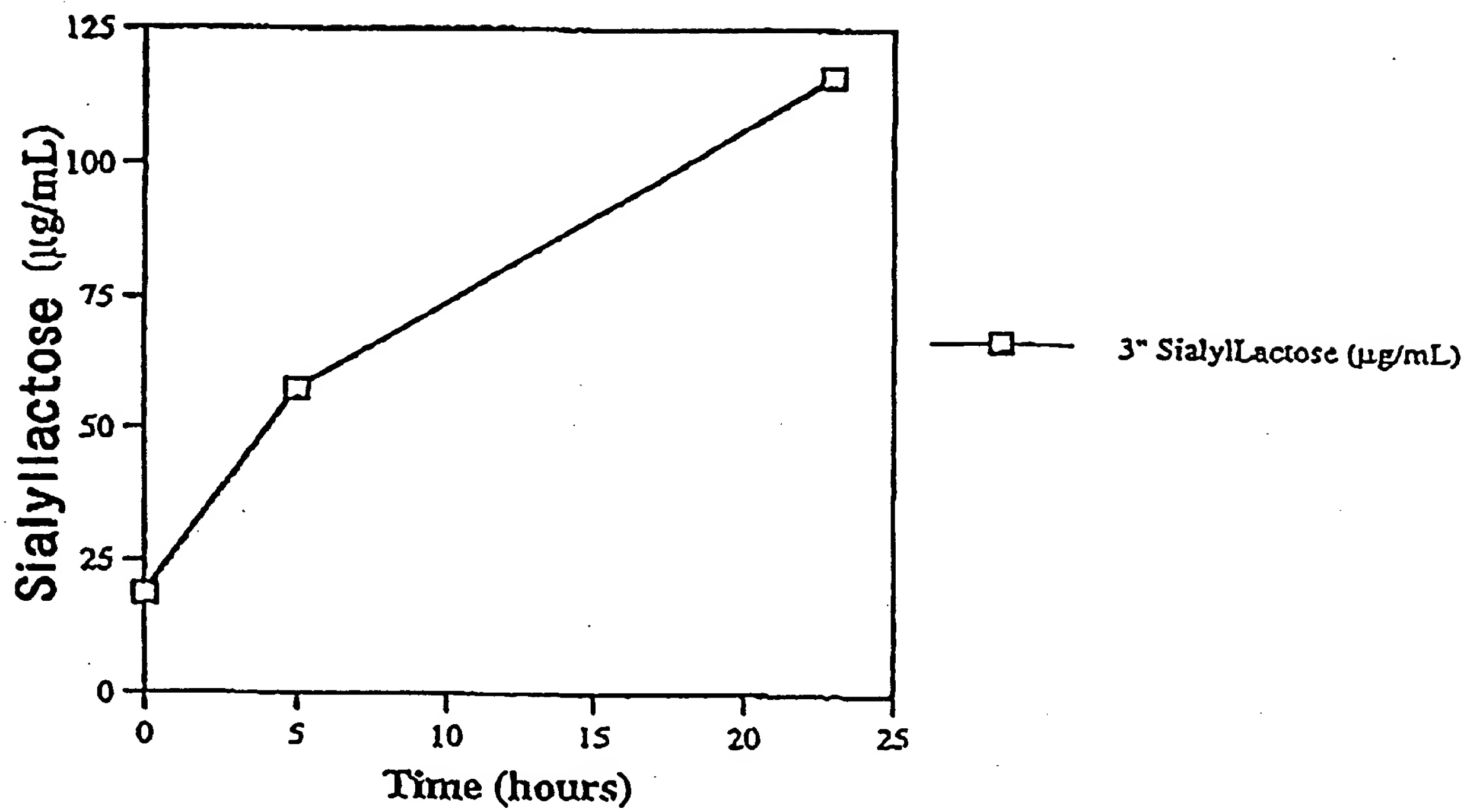


FIG. 6

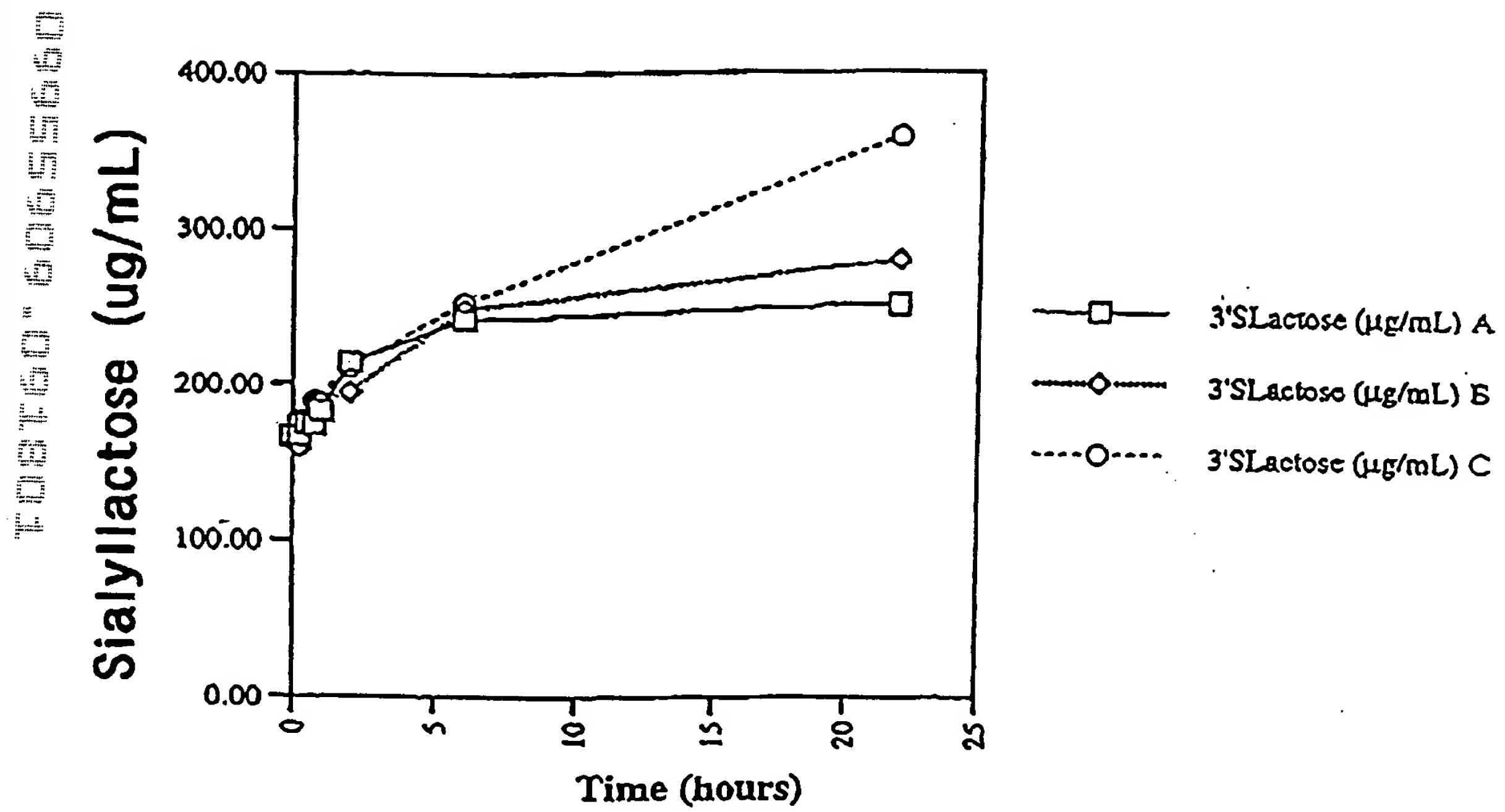


FIG. 7A

108169" 6069960

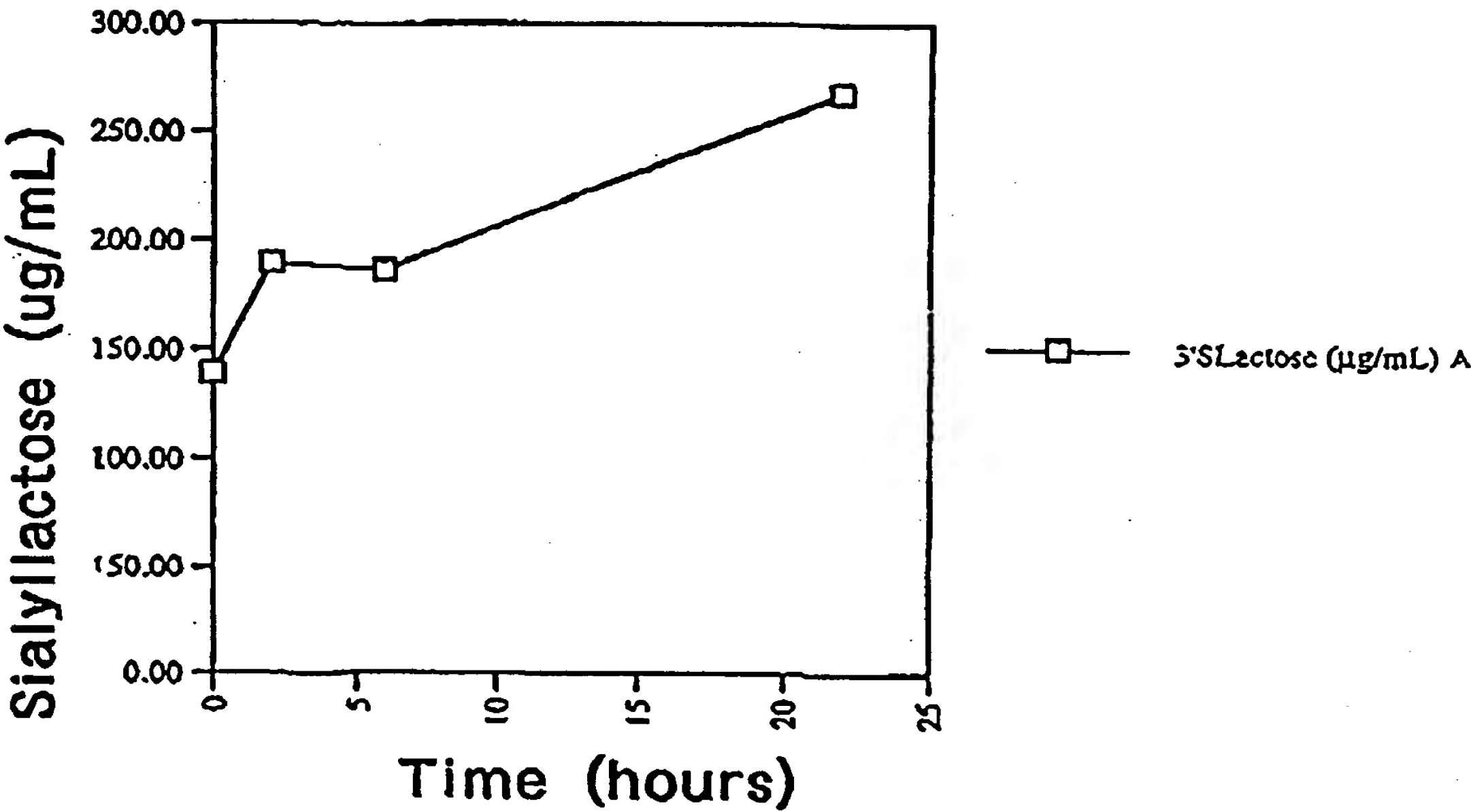


FIG. 7B



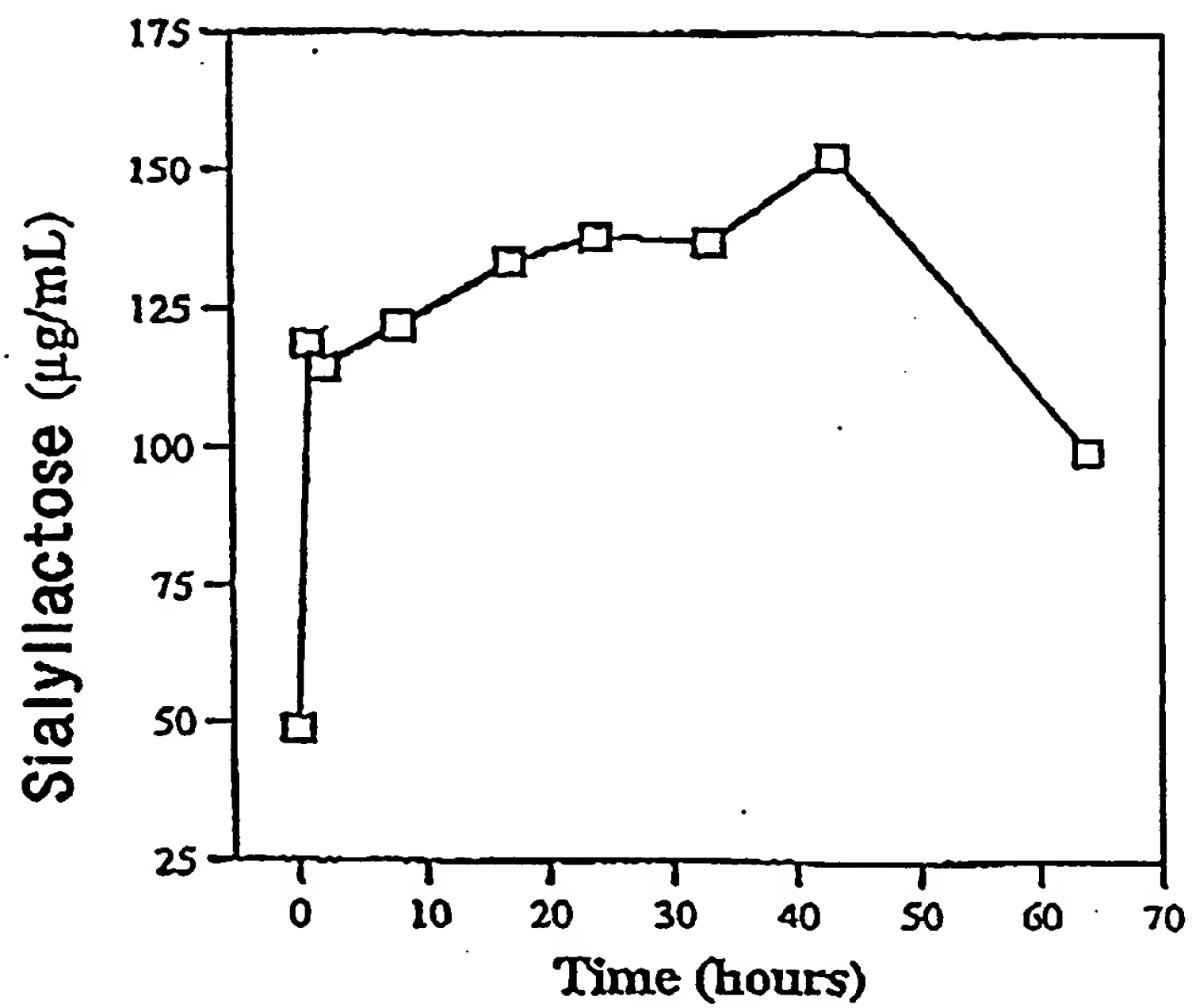


FIG. 8

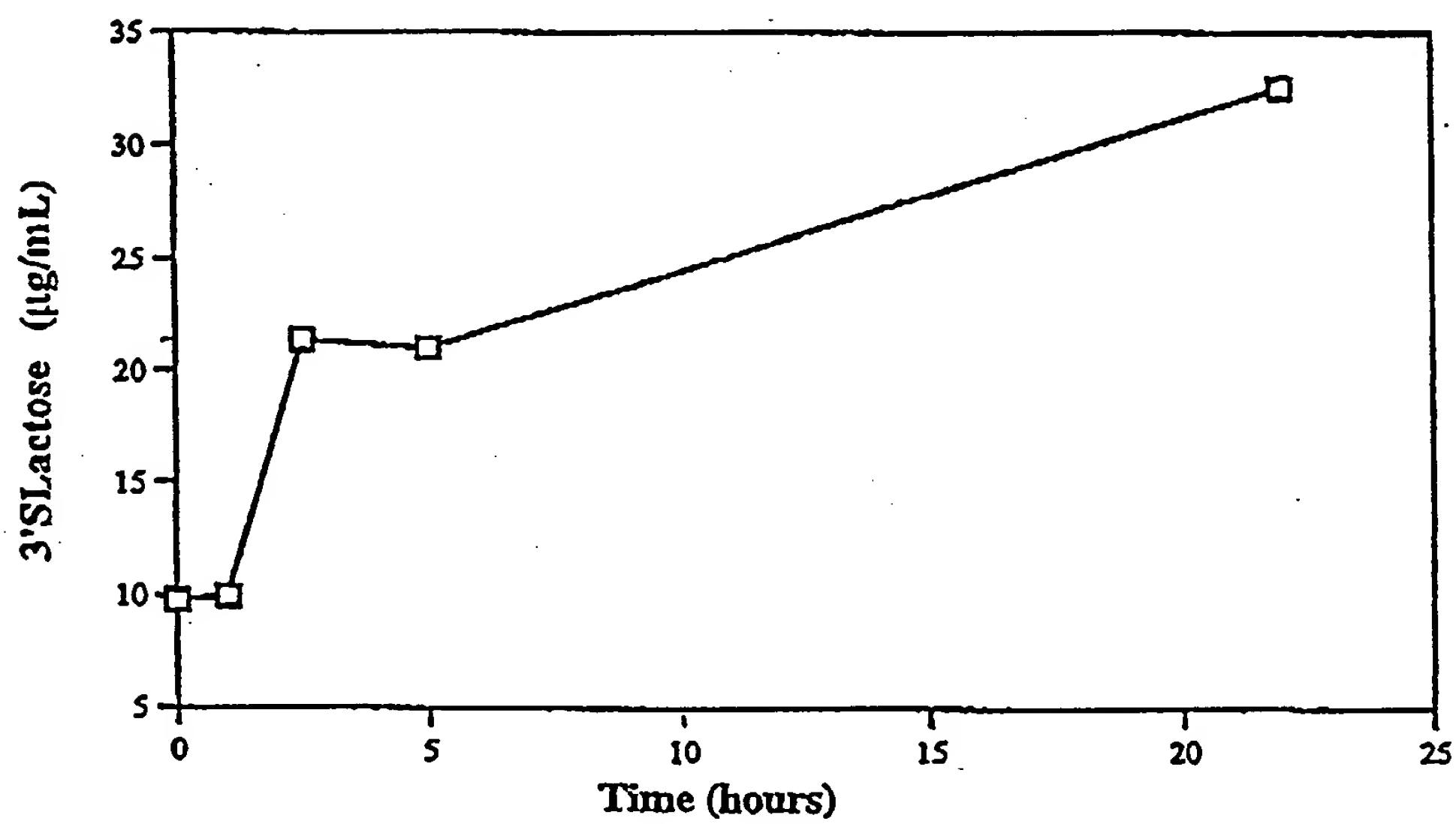


FIG. 9